Notice of Allowability	Application No.	Applicant(s)	
	10/722,941	KAZAKEVICH ET AL.	
	Examiner	Art Unit	
	Lana N. Le	2685	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *11/26/03*.

2. ☒ The allowed claim(s) is/are *1-10*.

3. ☒ The drawings filed on *26 November 2003* are accepted by the Examiner.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
   a) ☐ All b) ☐ Some* c) ☐ None of the:
      1. ☐ Certified copies of the priority documents have been received.
      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
   (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

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REASON FOR ALLOWANCE

1. Claims 1-10 are allowable over the cited prior art.

2. The following is an examiner's statement of reasons for allowance:

A terminal disclaimer is filed on 8/16/05 to prevent a double patenting rejection with continuation patent number 6,684,064.

Regarding claim 1, Ichihara (US 6,330,455) discloses a subscriber unit (fig. 3) that receives data and a transmit power control (TPC) signal over a wireless communication downlink signal, comprising:

an RF power amplifier (4) with a bias point for amplifying the communication signal, the communication signal to produce an RF output signal (col 6, lines 3-8);

a detector (12), for receiving the communication signal and removing modulation components from the communication signal to provide a detector output signal (col 6, lines 26-28);

a second signal input (14) for providing a TPC signal (col 6, lines 33-42); and

a voltage comparator (15) for receiving the voltage input; whereby the bias input receives the bias signal and dynamically adjusts the bias point of the amplifier (figs 1&3; col 8, line 58 – col 9, line 27). Ichahara does not disclose a feedback from the signal output and for comparing the current signal with the feedback to produce a bias signal.

Gourgue et al (US 5,625,322) discloses a feedback from the RF output signal (at 32) and for comparing the current signal (at 35) with the feedback to produce a bias signal at 4 (at output 4) (fig. 3; col 6, line 45 – col 7, line 33).

Weiland et al (US 5,655,220) discloses receiving the TPC signal over a wireless communication downlink signal (via 206) (fig. 2).

However, Ichihara, Gourgue et al, Weiland et al and the cited prior art combined fail to further disclose:

a current mirror for receiving the current signal; a converter, coupled to the detector configured to process the TPC signal and the detector output signal to generate a current signal whereby the bias point of the RF amplifier is dynamically adjusted responsive to the bias signal.

Regarding claim 6, Rozenblit et al (US 6,466,772) disclose in a subscriber unit that receives data over a wireless communication downlink signal, a method for dynamically adjusting the operating bias of an RF power amplifier (102) that amplifies a communication signal for transmission by the subscriber unit (fig. 1a; col 5, lines 23-45), the method comprising:

receiving the communication signal (via input 122; fig. 1a) and the TPC signal (via 114) (col 3, lines 22-29);

removing (via 112) modulation components from the communication signal to produce a dc voltage signal (col 3, lines 43-45).

However, Rozenblit et al fail to disclose comparing the current signal with a feedback from the output of the RF power amplifier to produce a bias signal.

Gourgue et al (US 5,625,322) discloses comparing (via 35) the current signal with a feedback from the output of the RF power amplifier to produce a bias signal (at output 4) (fig. 3; col 6, line 45 – col 7, line 33).

Weiland et al (US 5,655,220) discloses receiving (via 206) a transmit power control (TPC) signal in the subscriber unit (fig. 2).

However, Rozenblit et al, Gourgue et al, and the cited prior art fail to disclose:

processing the TPC signal and the dc voltage signal to generate a current signal; and

dynamically adjusting the operating bias of the RF amplifier using the bias signal.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lana N. Le whose telephone number is (571) 272-7891. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward F. Urban can be reached on (571) 272-7899. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lana Le

August 31, 2005